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MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Dated: October 30, 2006

Signature: 

Joseph A. Williams, Jr.

Docket No.: 30275/40871  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Victor C. Yang et al.

Application No.: 10/668,663

Confirmation No.: 5598

Filed: September 23, 2003.

Art Unit: 1646

For: PROTAMINE FRAGMENT  
COMPOSITIONS AND METHODS OF USE

Examiner: H. A. Robinson

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This submission is made at the request of the examiner who has not been able to locate documents listed in a previously-filed Information Disclosure Statement in the instant application and made of record in the parent to the instant application. This submission is made only for the examiner's convenience and is timely.

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being refilled more than three months after the U.S. filing date, AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

In accordance with 37 CFR 1.98(a)(2)(ii), Applicant has not submitted copies of U.S. patents and U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patent literature in accordance with 37 CFR 1.98(a)(2).

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 30275/40871. A copy of this paper is enclosed.

Dated: October 30, 2006

Respectfully submitted,

By 

Joseph A. Williams, Jr.

Registration No.: 38,659

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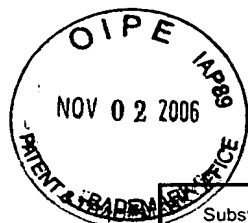
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PTO/SB/08A/B (09-06)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	30275/40871
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**Complete if Known**

Application Number	10/668,663-Conf. #5598
Filing Date	September 23, 2003
First Named Inventor	Victor C. Yang
Art Unit	1646
Examiner Name	H. A. Robinson
Attorney Docket Number	30275/40871

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-3,758,683	09-11-1973	Jackson	
		US-5,747,642	05-05-1998	De Felippis	
		US-6,468,731	10-22-2002	Hubbell et al.	
		US-6,624,141	09-23-2003	Yang et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO 96/35444	11-14-1996	University of Michigan		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Ando et al., "A New Method for Fractionation of Protamines and the Amino Acid Sequences of Salmine and Three Components of Iridine," <i>Int. J. Protein Research</i> , Vol. 1, pp.221-224 (1969).	
		Byun et al., "Low Molecular Weight Protamine: A Potential Nontoxic Heparin Antagonist," <i>Thrombosis Research</i> , Vol. 94, No. 1, pp.53-61 (1999).	
		Cardin et al., "Molecular Modeling of Protein-Glycosaminoglycan Interactions," <i>Arteriosclerosis</i> , Vol. 9, pp. 21-32 (1989).	
		International Search Report for Counterpart PCT Application Serial No. PCT/US00/06876, mailed July 24, 2000.	
		Patent Abstracts of Japan, 1998:08, June 30, 1998, referencing Japanese Patent Abstract 10/075777.	
		Pirhonen et al., "Primary Structures of Two Protamine 2 Variants ST2A and ST2B from Stallion Spermatozoa," <i>Biochem. Biophys. Acta.</i> , Vol. 1039, No. 2, pp.177-180 (1990).	
		Rang et al., "Hemostasis and Thrombosis," <i>In: Pharmacology</i> , pp.331-350 (1995).	
		Smith et al., "A Heparin Binding Site in Antithrombin III," <i>J. Biol. Chem.</i> , Vol. 25, pp. 11964-11972 (1987).	
		Suzuki et al., "Studies on Protamine XIII: The Fraction of Clupein Y," <i>J. Biochem.</i> , Vol. 63, pp.701-708 (1968).	
		Tan et al., "Protamine Inhibits Plasma Carboxypeptidase N, the Inactivator of Anaphylatoxins and Kinins," <i>Anesthesiology</i> , Vol. 70, No. 2, pp.267-275 (1989).	
		WPI Database, week 1986:09; January 20, 1986, referencing Japanese Patent Abstract 61/012265.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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